

**Setting** Small group (4-6 children)

### Materials

- Baggie
- Teacher-made shapes (cardstock or poster board) or commercial shapes (pattern blocks)

(Pattern blocks come with triangle, square, rhombus, trapezoid, and hexagon shapes.)

### Objective

Children will recognize attributes and create new shapes using pattern blocks.

### Vocabulary

up

down

turn

flip

slide

### Pre-K Guidelines

V. Mathematical Domain

C. Geometry and Spatial Sense

V.C.1. Child names common shapes.

V.C.2. Child create shapes.

V.C.4. Child slides, flips, and turns shapes to demonstrate that the shapes remain the same

### Define concept in child friendly terms

**Boys and girls, today we are going to use a variety of shapes and combine them to create new shapes.**

### Model and explain procedure

Show the children 2 triangles that are the same size and shape. **I have 2 triangles that are the same size and shape. Triangles have 3 sides.** Point to the sides and have the children count the number of sides with you. **When I put them together, I can create a rhombus.** Model putting the 2 triangles together to make a rhombus.

### Guided practice

Give each child a baggie with a variety of pattern blocks in it. **Boys and Girls, now it is your turn to create new shapes out of pattern blocks.**

**Who can tell me what a square looks like? That's right! A square has 4 sides that are the same length.** Show the children a square pattern block. **Take 2 squares out of your baggie.**

**Now, put the squares together. What new shape did you make? Yes! You made a rectangle. A rectangle has 2 short sides and 2 long sides.**

Have the children practice combining shapes to make new shapes.

### **Summarize**

**You all were very creative today. You were able to combine different shapes to create new shapes.**

**You can practice creating new shapes in the math center during center time.**

### **Variation**

Provide paper and colored pencils so that children can trace the new shapes they created from the pattern blocks. Place in child's portfolio.